



ARIZONA DEPARTMENT OF TRANSPORTATION

INTERMODAL TRANSPORTATION DIVISION

ENGINEERING CONSULTANTS SECTION

205 South 17th Avenue - Room 293E, Mail Drop 616E
Phoenix, Arizona 85007



FIFE SYMINGTON
Governor

LARRY S. BONINE
Director

May 30, 1997

THOMAS G. SCHMITT
State Engineer

Engineering Consultants Section

INFORMATION BULLETIN 97-10

TO: Consultants

FROM: Engineering Consultants Section *Bob*

SUBJECT: METRIC PROJECTS
Information On Plan Sheets For Concrete Box Culverts And Retaining Walls

Enclosed are instructions for the proper application of notes, dimensions, and quantities for concrete box culverts and retaining walls on current and future Metric Projects. These revisions are required only if the concrete and reinforcing steel quantity tables in the Structures Section Standard Drawings are referenced and used in the design of the box culverts and retaining walls.


If you have any questions, please contact Bob Trujillo at 602-255-8675.

ARIZONA DEPARTMENT OF TRANSPORTATION

OFFICE MEMO

April 29, 1997

TO: JOHN LOUIS, Roadway Engineering Group, 611E
DAN DAVIS, Bridge Group, 269E
MIKE MANTHEY, Traffic Engineering Group, 065R
LARRY LANGER, Valley Project Management Section, 614E
MARY VIPARINA, Statewide Project Management Section, 614E
PETE ENO, Engineering Consultants Section, 616E
DAVE ALLOCCO, Contracts and Specifications Section, 121F

FROM: Dan Macdonald 
Section Manager
Roadway Support Section

RE: METRIC PROJECTS
Information on Plan Sheets for Concrete Box Culverts and Retaining Walls

PLEASE DISTRIBUTE TO ALL PROJECT MANAGERS

Due to recent modifications regarding the use of the Structures Section Standard Drawings, June 1992 (Publication No. 31-002) (English Edition) on all current and future metric projects, the followings revisions to the plan sheets shall be implemented. These revisions are required only if the concrete and reinforcing steel quantity tables in the Structures Section Standard Drawings are referenced and used in the design of the box culverts and retaining walls.

All notes, dimensions and quantities for concrete box culverts and retaining walls on the plans shall continue to be shown in metric with the following additions. The English equivalent for the Span and Height of the box culvert shall be shown in the Remarks column of the Reinforced Concrete Box Culvert Summary Sheet. . The English equivalent for the Height of the retaining wall shall also be shown on the plans.

The quantities shown on the plans sheet for concrete and reinforcing steel on box culverts and retaining walls are to be calculated using the Structures Section Standard Drawings, June 1992 (English Edition) and converted to metric units.

- Concrete quantities shall be converted to cubic meters.
- Reinforcing steel shall be converted to kilograms.
- Structural Excavation, Drainage Excavation, Structure Backfill, Berm and Dike Embankment shall be shown in cubic meters.

The following notes have been added to the Reinforced Concrete Box Culvert Summary Sheet. See attachment.

- "APPROXIMATE QUANTITIES SHOWN WERE CALCULATED USING THE STRUCTURES SECTION STANDARD DRAWINGS, JUNE 1992 (ENGLISH EDITION) AND CONVERTED TO METRIC UNITS."
- "STRUCTURES SECTION STANDARD DRAWINGS, JUNE 1992 (ENGLISH EDITION)".

Concrete shall be Bid Item No. 6010014 – Structural Concrete (Class S) ($f'c=3000$ psi). See attachment.

These changes are effective on the date of this memo. If you have any questions or wish to obtain the current CADD file for the Box Culvert summary sheet please contact Bob Trujillo at 255-8675.

DM:rtt

Attachment

cc: Roadway Design Section Managers and Project Reviewers

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

PROJECT NO.	063-2-310	DATE	9/63
STATE	ARIZ.	BY	095 LP 148

DESCRIPTION										END TREATMENT										LENGTH OF BARREL & BARREL EXTENSIONS										# APPROXIMATE QUANTITIES										REMARKS
																				</																				



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April 23, 1997

THOMAS G. SCHMITT
State Engineer

Engineering Consultants Section

INFORMATION BULLETIN 97-09

TO: Consultants

FROM: Engineering Consultants Section *Flow*

SUBJECT: Prenegotiation Cost Proposal Information Request

There have been significant changes to the Prenegotiation Cost Proposal Information Request Packet and therefore, we felt it necessary to bring all consultants up-to-date on the three part questionnaire. The three part questionnaire was developed to obtain information needed from both the Prime Consultant and Subconsultants to expedite the Prenegotiation Review of Proposed Costs per the Code of Federal Regulations, Title 23, Chapter 1, part 172.5(c).

If you have questions regarding this bulletin, please call (602) 255-7525 for further information.

attachment